

STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	
3, 4	1'-5''	1'-11''	2'-1"	2'-4"	2'-3"	
5	1'-9''	2'-5"	2'-7"	2'-11''	2'-10''	
6	2'-1''	2'-11''	3'-1''	3'-6''	3'-4''	
7	2'-9''	3'-10''	4'-2"	4'-8''	4'-6''	
8	3'-8''	5'-1"	5′-5″	6'-2"	5′-10′′	
9	4'-7''	6'-5"	6'-10''	7′-9′′	7′-5′′	

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

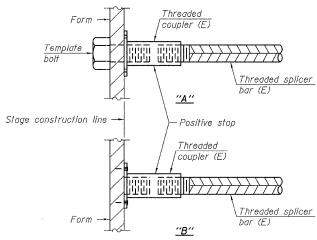
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1^{l_2} " + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

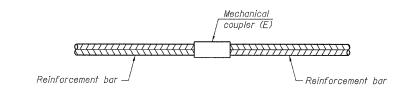
Location	Bar	No. assemblies	Table for minimum
	size	required	lap length
Deck #5		228	2'-11''
Diaphragm	#6	16	3'-1''
Approach Slab	#4	50	2'-4"
Approach Slab	#5	172	2'-11''
Abutments	#7	16	4'-2"
Abutments	#5	20	2'-7"



INSTALLATION AND SETTING METHODS

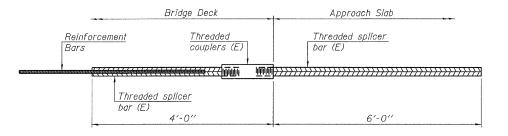
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nalling to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



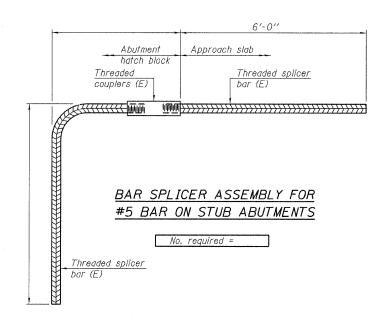
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 64



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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FILE NAME =	090039-sht-bridge.dgn	USER NAME =	DESIGNED -	S.M.S.	REVISED -
НАМРТО	N, LENZINI AND RENWICK, INC.		CHECKED -	C.C.S.	REVISED -
-	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN -	D.A.B.	REVISED -
HER	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 2/22/2011	CHECKED -	M.D.C.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 033-0054

SHEET NO. 19 OF 22 SHEETS

F.A.P. SECTION COUNTY SHEET NO.

776 102B-1 HAMILTON 52 42

CONTRACT NO. 78067